# Math 8 Portion of IB Community Service Project

The math portion of the project is to collect, display and reflect on data. While you are doing your project and research you should be collecting data to be displayed. Due Date: 12/4 (Purple Day) and 12/5 (Red Day)

- 1. The data needs to bivariate (two variable) data. examples: time and money; or number of persons helped and number of days(hours); survey results: number of response (on a topic) and number of people surveyed, etc.
- 2. You need and x (Domain) and a y (Range) because you will be graphing your data using a computer program (Excel or other type spreadsheet) or a manual graph and determining the slope.
- 3. Once you have graphed your data, you will compare your graph to your expectations from the proposal for action and use that analysis to write a one paragraph reflection on the results of your action.
- 4. You will need to include the graph and reflection in your presentation (slide in PowerPoint, posted on a display board, handout to each student in your ATL, etc.).

5. The graph needs to be explained as part of your presentation for IB Community Service Project.

Achievement	8-7	6-5	4-3	2-1	0
Level					
Criterion C -	ii. demonstrate	ii. demonstrate	iidemonstrate	ii. demonstrate	Students do not
Taking	excellent thinking	substantial thinking	adequate thinking	limited thinking	achieve a
Action	skills	skills	skills	skills	standard
					described by .
	,			¥	any of the
	F. 194			20	descriptors
					below.
Criterion D -	i. present an	i. present a	i. present an	i. present a limited	Students do not
Reflecting	excellent evaluation	substantial	adequate	evaluation of the	achieve a
5"	of the quality of the	evaluation of the	evaluation of the	quality of the	standard
	service as action	quality of the	quality of the	service as action	described by
	against the proposal	service as action	service as action	against the	any of the
7		against the proposal	against the	proposal	descriptors
			proposal		below.
Task-	100-95 pts.	90-85 pts.	80-75 pts.	70-65 pts.	Student will
Specification	- Graph is created	- Graph is created &	- Graph is created	- Graph is created	receive no
	and displayed	displayed accurately	and displayed (X,Y).	and displayed (X,Y)	grade until
= -	accurately (X,Y).	(X,Y). Dependence	- Slope is	although they lack	completed. In
2	Dependence has	has been determine	calculated using	appropriate labels.	class
	been determine	appropriately when	the correct	- Slope is	conference with
	appropriately when	applicable.	process; however,	calculated with the	math teacher or
5.54	applicable.	- Slope is calculated	a arithmetic error	wrong process.	IB coordinator
200	- Slope is calculated	accurately with	is made.	- Graph contains	might be
3.	accurately with DM.	single method.	-Graph contains	two variables that	required.
	-Graph contains two	-Graph contains two	two variables that	are irrelevant to	
	variables that are	variables that are	are somewhat	their proposed	
	relevant to their	relevant to their	relevant to their	community action.	
	proposed	proposed	proposed	- Reflection is	
· 20**	community action.	community action.	community action.	written, but either	2
e' . Se	- Reflection is well-	- Reflection is	- Reflection is	inaccurate of	
	written, accurate, &	written, accurate, &	written, has some	lacking detail.	
	expresses that they	expresses that they	degree of accuracy		
	have met all goals of	have met goals of	and little		
	their proposal for	their proposal for	connection to the		
	action.	action.	goals.		
1					l

Comments on IB Achievement Level -

Total Points \_\_\_\_\_/100

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- 3. Once you have graphed your data, you will compare your graph to your expectations from the proposal for action and use that analysis to write a one paragraph reflection on the results of your action.
- 4. You will need to include the graph and reflection in your presentation (slide in PowerPoint, posted on a display board, handout to each student in your ATL, etc.).

5. The graph needs to be explained as part of your presentation for IB Community Service Project.

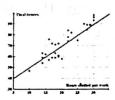
Achievement Level	8-7	6-5	4-3	2-1	0
Criterion C - Taking Action	ii. demonstrate excellent thinking skills	ii. demonstrate substantial thinking skills	ii. demonstrate adequate thinking skills	ii. demonstrate limited thinking skills	Students do not achieve a standard described by any of the descriptors below.
Criterion D - Reflecting	i. present an  excellent evaluation	i. present a substantial	i. present an adequate	i. present a limited evaluation of the	Students do not achieve a
	of the quality of the service as action against the proposal	evaluation of the quality of the service as action against the proposal	evaluation of the quality of the service as action against the proposal	quality of the service as action against the proposal	standard described by any of the descriptors below.
Task-	100-95 pts.	90-85 pts.	80-75 pts.	70-65 pts.	Student will
Specification	- Graph is created and displayed accurately (X,Y). Dependence has been determine appropriately when applicable Slope is calculated accurately with DMGraph contains two variables that are relevant to their proposed community action Reflection is well-written, accurate, & expresses that they have met all goals of their proposal for action.	- Graph is created & displayed accurately (X,Y). Dependence has been determine appropriately when applicable Slope is calculated accurately with single methodGraph contains two variables that are relevant to their proposed community action Reflection is written, accurate, & expresses that they have met goals of their proposal for action.	- Graph is created and displayed (X,Y) Slope is calculated using the correct process; however, a arithmetic error is made Graph contains two variables that are somewhat relevant to their proposed community action Reflection is written, has some degree of accuracy and little connection to the goals.	- Graph is created and displayed (X,Y) although they lack appropriate labels Slope is calculated with the wrong process Graph contains two variables that are irrelevant to their proposed community action Reflection is written, but either inaccurate of lacking detail.	receive no grade until completed. In class conference with math teacher or IB coordinator might be required.

Total Points

Comments on IB Achievement Level -

### MATH PORTION OF THE COMMUNITY PROJECT

The math portion of the project is to collect and display data. While you are doing your project and research you should be collecting data to be displayed.



#### **GENERAL INSTRUCTIONS**

- 1. The data needs to bivariate (two variable) data. Example: time and money; or number of persons helped and number of days(hours); Survey results: Number of response (on a topic) and number of people surveyed, etc.
- 2. You need and x (Domain) and a y (Range) because you will be graphing your data using a computer program (Excel or other type spreadsheet) or a manual graph and determining the slope.
- 3. You will need to include the graph in your presentation (slide in PowerPoint, posted on a display board, handout to each student in your ATL, etc.).
- 4. The Graph needs to be explained as part of your presentation for ATL Community Service Project.

### QUESTIONS?



- You will receive the rubric in your Math class and can ask more questions at that point.
- In the mean time, make sure you are collecting data as your perform your action!
- Remember this will be taken for a grade in your math classes.